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gggagtcgac ccacgcgtcc ggtagcctgg tgctctttct c atg gct tca ccc agc 56  
Met Ala Ser Pro Ser 5  
5  
ctc ccg ggc agt gac tgc tcc caa atc att gat cac agt cat gtc ccc 104  
Leu Pro Gly Ser Asp Cys Ser Gln Ile Ile Asp His Ser His Val Pro 20  
10 15  
gag ttt gag gtg gcc acc tgg atc aaa atc acc ctt att ctg gtg tac 152  
Glu Phe Glu Val Ala Thr Trp Ile Lys Ile Thr Leu Ile Leu Val Tyr 35  
25 30  
ctg atc atc ttc gtg atg ggc ctt ctg ggg aac agc gcc acc att cgg 200  
Leu Ile Ile Phe Val Met Gly Leu Leu Gly Asn Ser Ala Thr Ile Arg 40 45 50  
gtc acc cag gtg ctg cag aag aaa gga tac ttg cag aag gag gtg aca 248  
Val Thr Gln Val Leu Gln Lys Lys Gly Tyr Leu Gln Lys Glu Val Thr 60 65  
55  
gac cac atg gtg agt ttg gct tgc tcg gac atc ttg gtg ttc ctc atc 296  
Asp His Met Val Ser Leu Ala Cys Ser Asp Ile Leu Val Phe Leu Ile 70 75 80 85  
70  
ggc atg ccc atg gag ttc tac agc atc atc tgg aat ccc ctg acc acg 344  
Gly Met Pro Met Glu Phe Tyr Ser Ile Ile Trp Asn Pro Leu Thr Thr 90 95 100

FIG. 1A



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392  
tcc agc tac acc ctg tcc tgc aag ctg cac act ttc ctc ttc gag gcc  
ser ser tyr thr thr 105  
110  
115  
440  
tgc agc tac gct acg ctg ctg cac ctg ctg aca ctc agc ttt gag cgc  
cys ser tyr ala thr leu leu 120  
125  
130  
488  
tac atc gcc atc tgt cac ccc ttc agg tac aag gct gtg tcg gga cct  
tyr ile ala ile cys his pro phe arg tyr lys ala val ser gly pro  
135  
140  
145  
536  
tgc cag gtg aag ctg ctg att ggc ttc gtc tgg gtc acc tcc gcc ctg  
cys gln val lys leu leu ile gly phe val trp val thr ser ala leu  
150  
155  
160  
584  
gtg gca ctg ccc cac ctg ttt gcc atg ggt act gag tac ccc ctg gtg  
val ala leu pro leu leu phe ala met gly thr glu tyr pro leu val  
170  
175  
632  
aac gtg ccc agc cac cgg ggt ctc act tgc aac cgc tcc agc acc cgc  
asn val pro ser his arg gly leu thr cys asn arg ser thr arg  
185  
190  
680  
cac cac gag cag ccc gag acc tcc aat atg tcc atc tgt acc aac ctc  
his his glu gln pro glu thr ser asn met ser ile cys thr asn leu  
200  
205  
210

FIG. 1B



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728  
tcc agc cgc tgg acc gtg ttc cag tcc agc atc ttc ggc gcc ttc gtg  
Ser Ser Arg tgg acc thr Val Phe 220  
215  
776  
gtc tac ctc gtg gtc ctg ctc tcc gta gcc ttc atg tgc tgg aac atg  
Val Tyr Leu Val Val Leu Ser Val Ala Phe Met Cys Trp Asn Met  
230 235 240 245  
824  
atg cag gtg ctc atg aaa agc agc aag ggc tgc ctg gcc ggc ggc acg  
Met Gln Val Leu Met Lys Ser Gln Lys Gly Ser Leu Ala Gly Gly Thr  
250 255 260  
872  
cgg cct ccg cag ctg agg aag tcc gag agc gag agc acc gcc  
Arg Pro Pro Gln Leu Arg Lys Ser Gln Ser Glu Glu Ser Arg Thr Ala  
265 270 275  
920  
agg agg cag acc atc atc ttc ctg agg ctg att gtt gtg aca ttg gcc  
Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile Val Val Thr Leu Ala  
280 285 290  
968  
gta tgc tgg atg ccc aac cag att cgg agg atc atg gct gcg gcc aaa  
Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile Met Ala Ala Lys  
295 300 305  
1016  
ccc aag cac gac tgg acg agg tcc tac ttc cgg gcg ggc atc atc ctc  
Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg Ala Tyr Met Ile Leu  
310 315 320 325

FIG. 1C



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ctc ccc ttc tcg gag cag ttt ttc tac ctc agc tcg gtc atc aac ccg	1064
Leu Pro Phe Ser 330	
Leu Pro Phe Ser 335	
ctc ctg tac acg gtg tcc tcg cag cag ttt cgg cgg gtg ttc gtg cag	1112
Leu Leu Tyr 345	
Leu Leu Tyr 350	
gtg ctg tgc tcg cgc ctg tcg ctg cag cag cgc gag aag cgc	1160
Val Leu Cys 360	
Val Leu Cys 365	
ctg cgc gta cat gcg cac tcc acc acc gac agc gcc cgc ttt gtg cag	1208
Leu Arg Val His Ala His Ser Thr Thr Asp Ser Ala Arg Phe Val Gln	
375 380 385	
cgc ccg ttg ctc ttc gcg tcc cgg cgc cag tcc tct gca agg aga act	1256
Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser Ser Ala Arg Arg Thr	
390 395 400 405	
gag aag att ttc tta agc act ttt cag agc gag gcc gag ccc cag tct	1304
Glu Lys Ile Phe 410	
Glu Lys Ile Phe 415	
aag tcc cag tca ttg agt ctc gag tca cta gag ccc aac tca ggc gcg	1352
Lys Ser Gln Ser Leu Ser Leu Glu Ser Leu Glu Pro Asn Ser Gly Ala	
425 430 435	

FIG. 1D



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aaa cca gcc aat tct gct gca gag aat ggt ttt cag gag cat gaa gtt 1400  
Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe Gln Glu His Glu Val  
440 445 450

tgaatgtcaa gcgagggagc cttgagtggg aactggccct ccagccctaa gaaaaagtca 1460

ctctcactct gcagtctcaa actctgcccc catcagggat ggaatggaca ctggagggtt 1520

tacaaaaaggc agatgcccac ctcaagtact tctaaggact gactctgcca gcctggcctt 1580

gactccgggtt acacagacat ggggggtgaac tttcactcca cctccttctt tcaagtacat 1640

actgaaaatt cagtcaagct gaatttatc agaatgcttt accgagctct ttcattattt 1700

gcacaggaac aaaagagaac acggactccc gctccctacc cagaataaaa ggacacccag 1760

aagaaactca ctcagggagg tgggggggttg ggggcgagg ctggaagaac atgcaggag 1820

ggggtggcat ctcttcagc ttcagcagtg tgccgacaag agggctaatt tgaggaaacag 1880

gatggtggtg cggagccctg gcctgagggc cgaggcagaa ctccccctt tcttgggcct 1940

tggcccggtta caaagagggg tgttgcagca gctgatgcaa actgagttca gtttccctgg 2000

ggagcagaag gactgggtacc cggcagaggc gatgagacag gccgctgatg atgcacagga 2060

cttgcggtag atgatccccg cactttgctg catcattct tctgacaca tgtcttgaac 2120

**FIG. 1E**



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gttcaccgtg caattcaca tgaactcggg ggaggagcag tcgttgttca gctggaattc 2180  
ttcacactgg tagcactgga tttgcagcgc aaagccttgc ggactccccg ggatgccccg 2240  
gtgctatctt cgccttcctt cccgagcctt gcagcagggtg gtgcggggaga ccgcttgccc 2300  
gccggagtgc gttggtgccc ccgcccccaa tccgcacatt cccatcccct ttccgcacat 2360  
ccttagggag catccatttc cgtgggaaatc gcctcctaag ctttagctcc tcttcaccct 2420  
tttctcccc gccacttct gggggcagct ctctcagcc gggacgcaga tcatttaatt 2480  
ctgcacgcgn tcngcagagc tggctctgtaa aggggcttaa atgacttt 2528

*FIG. 1F*



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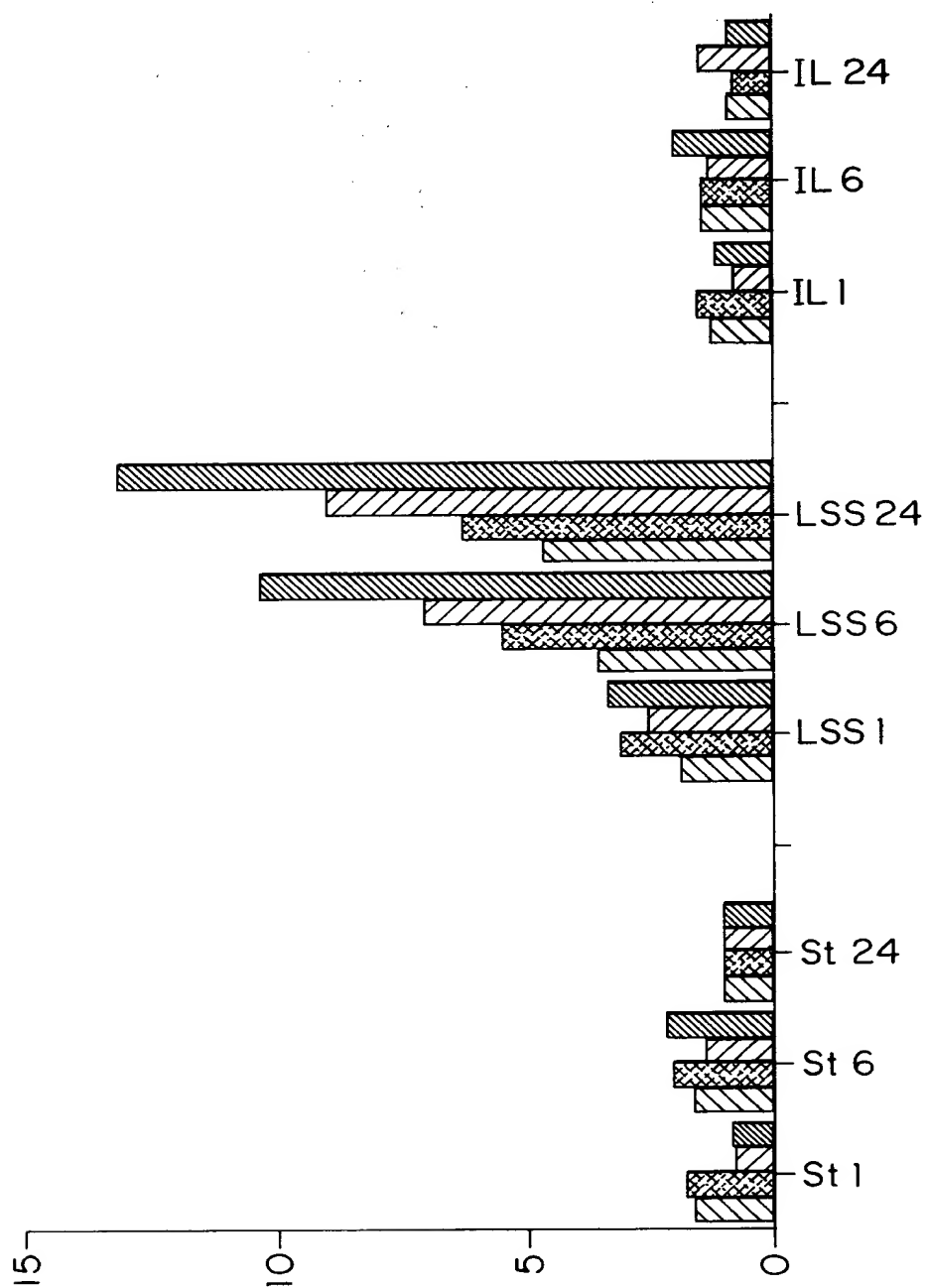


FIG. 2



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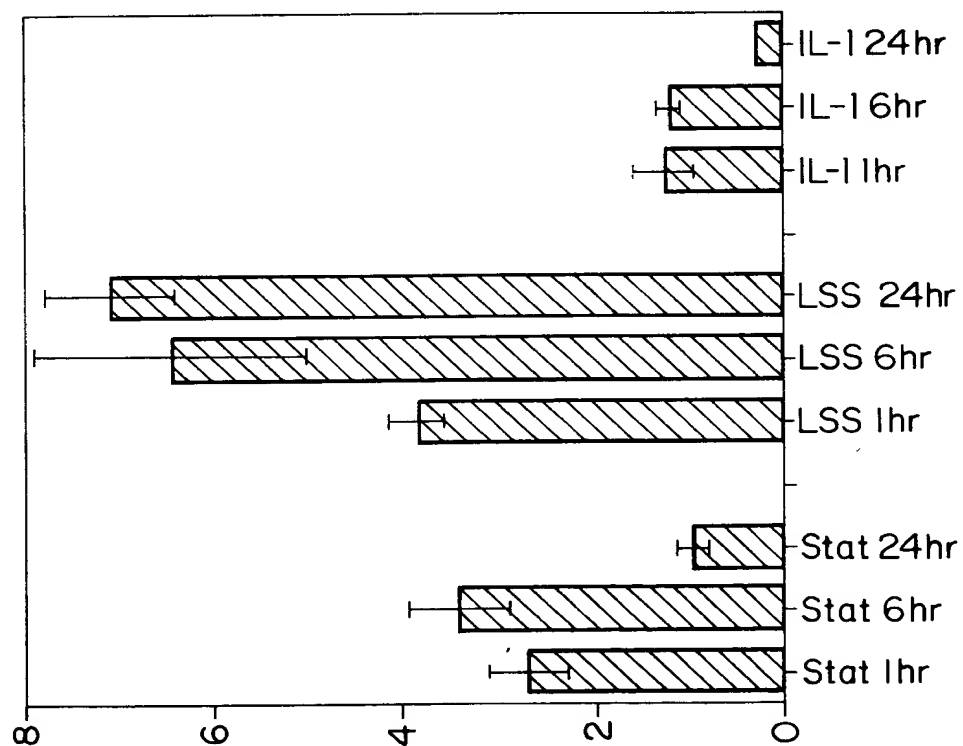
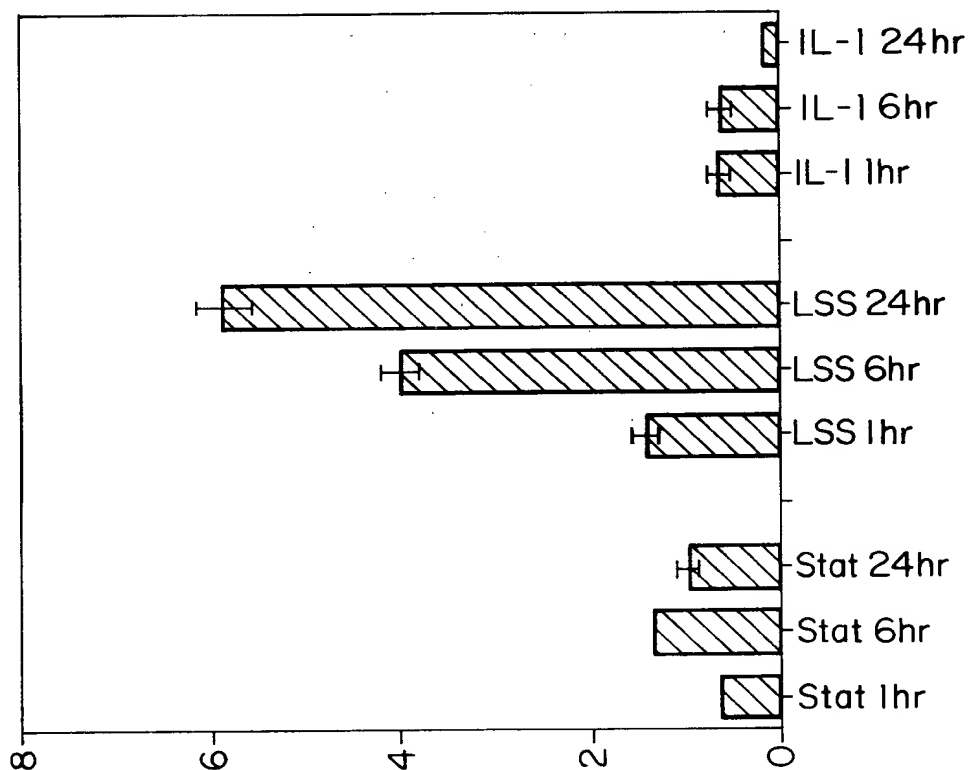


FIG. 3





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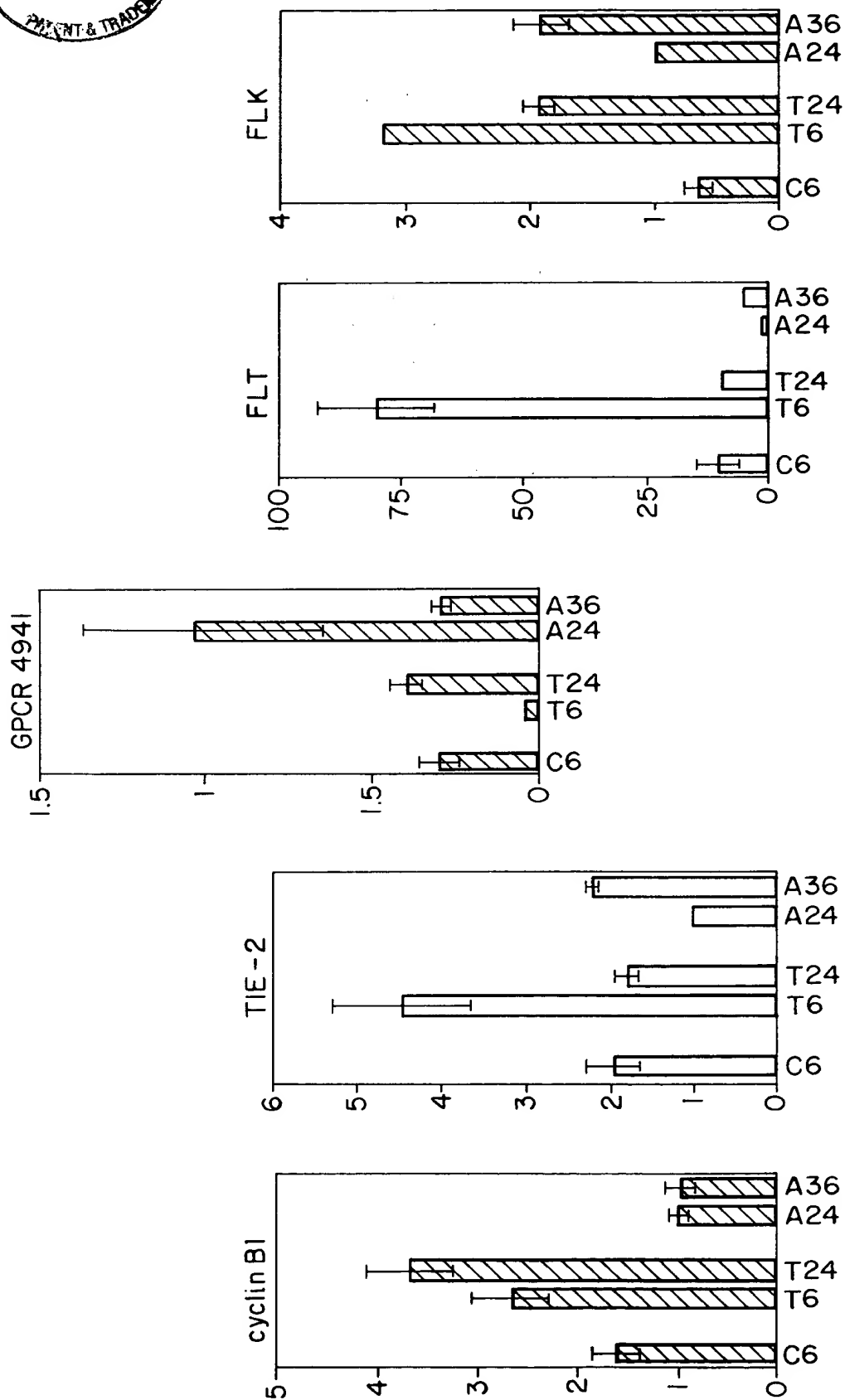
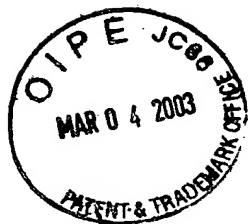
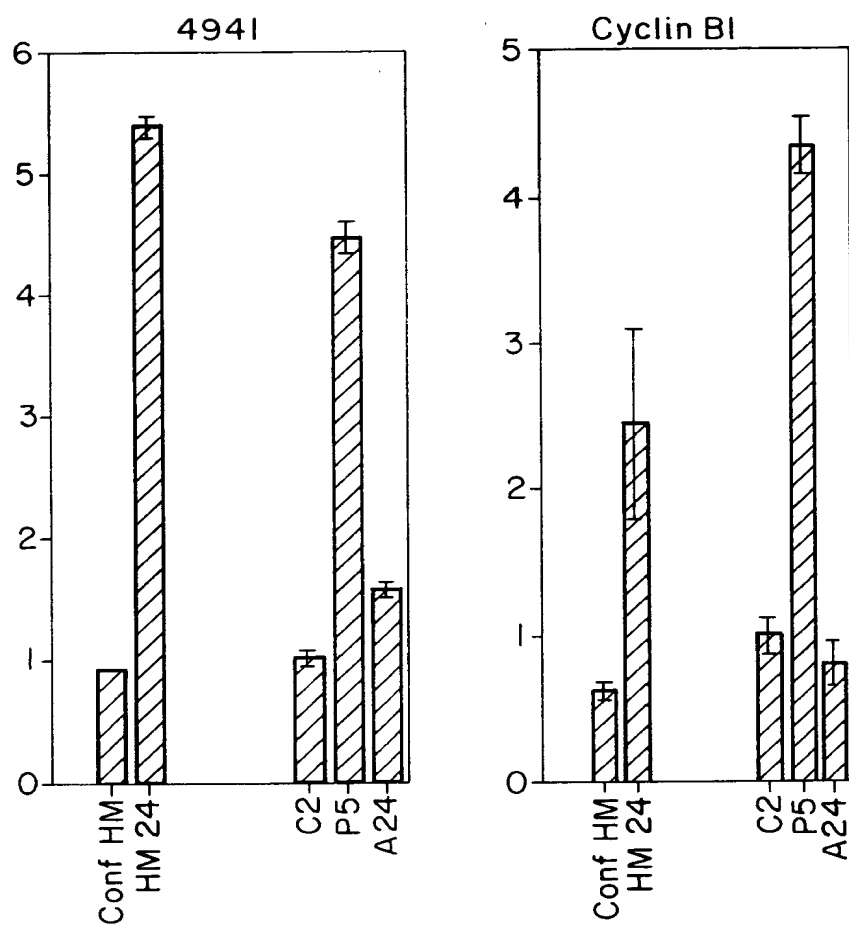


FIG. 4



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**FIG. 5**

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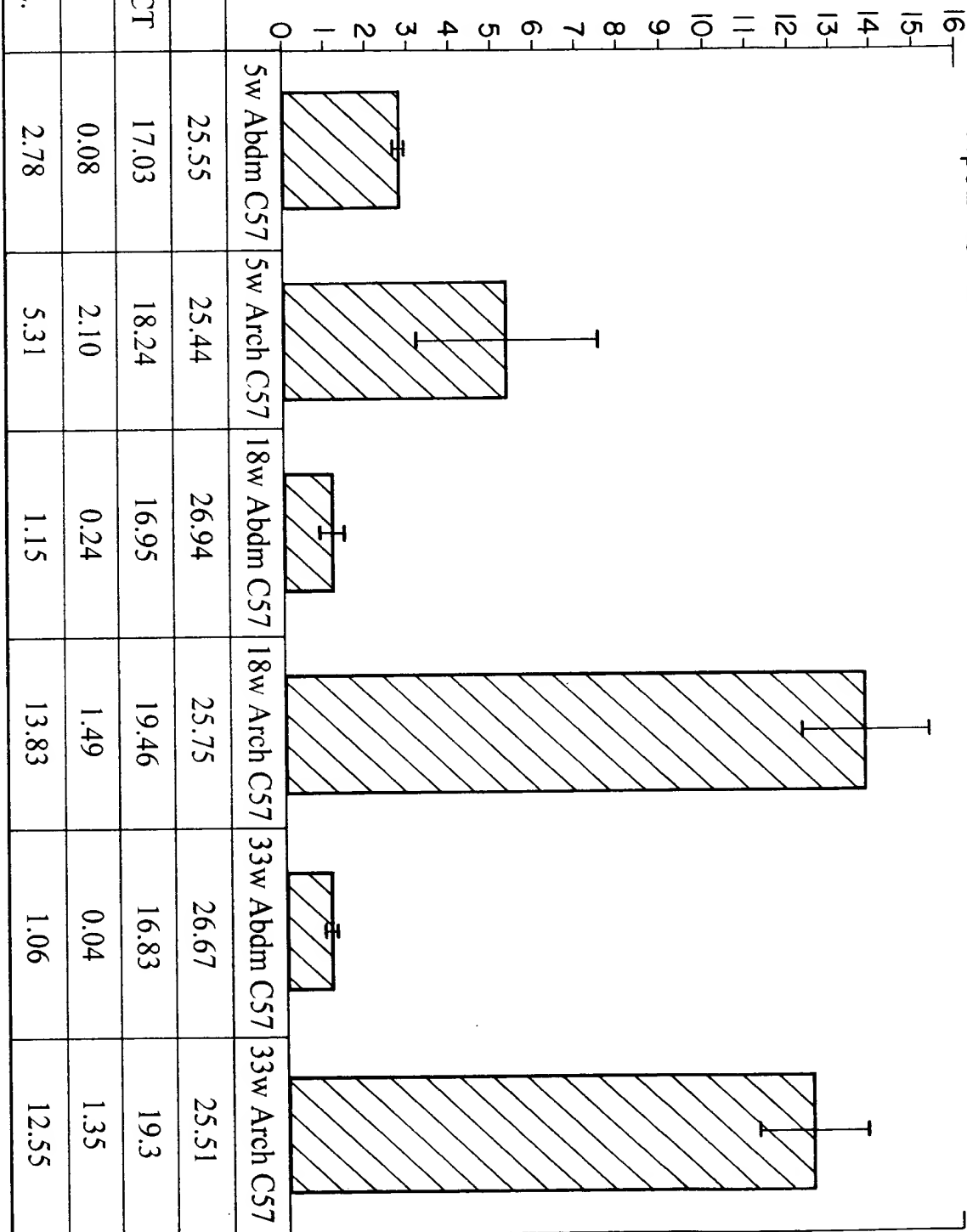
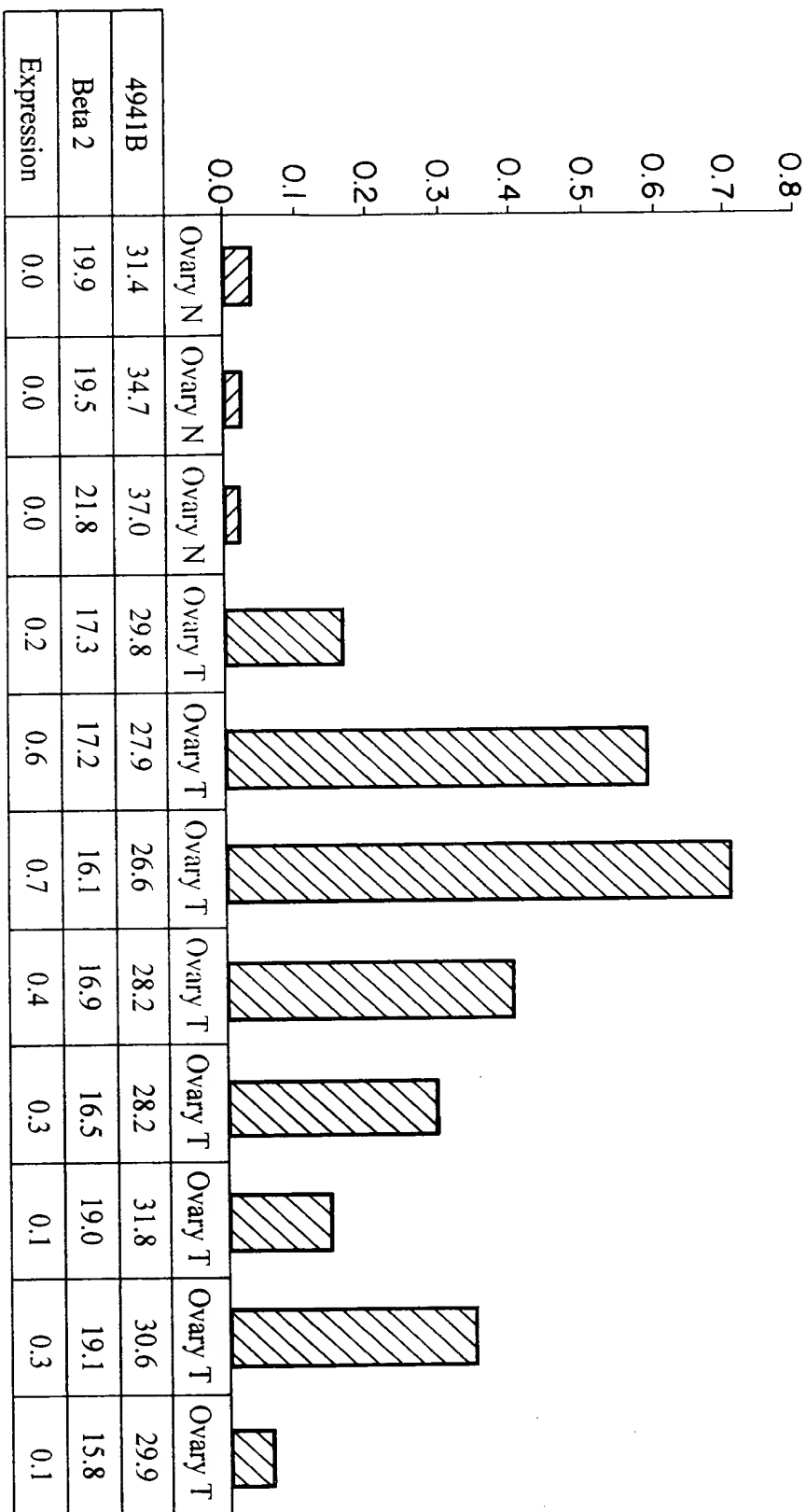


FIG. 6



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**FIG. 7A**

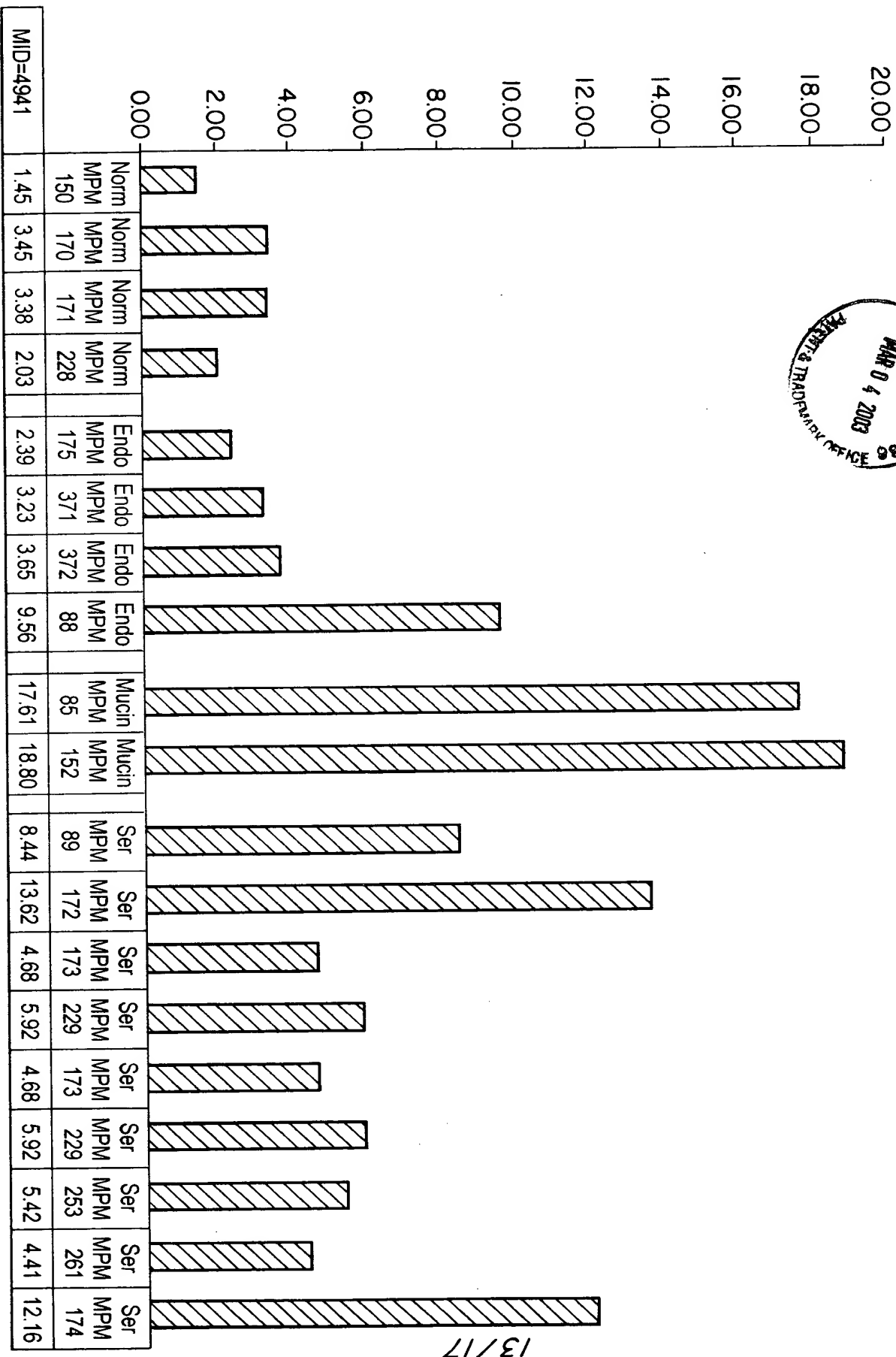


FIG. 7B

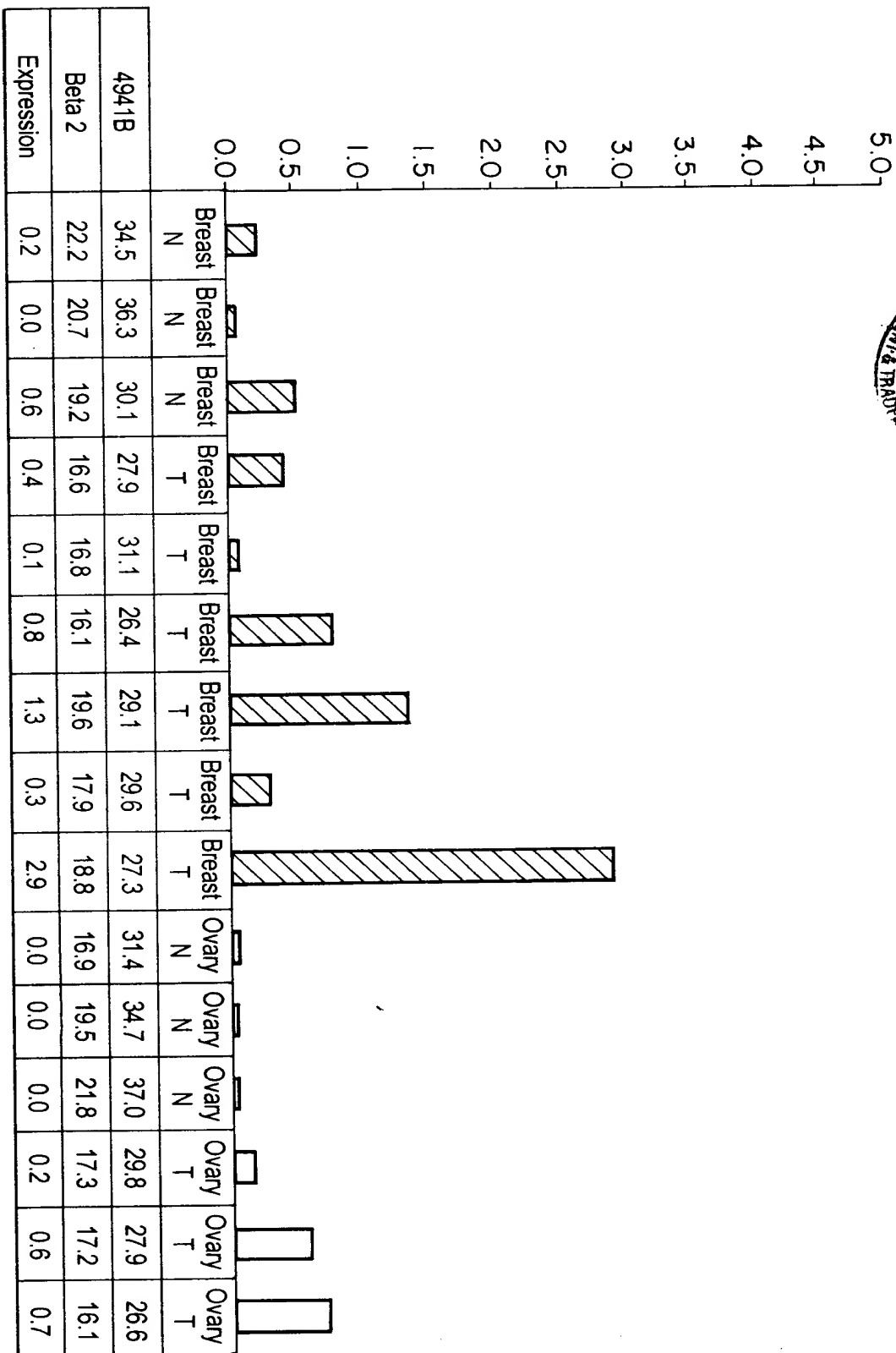


FIG. 8A

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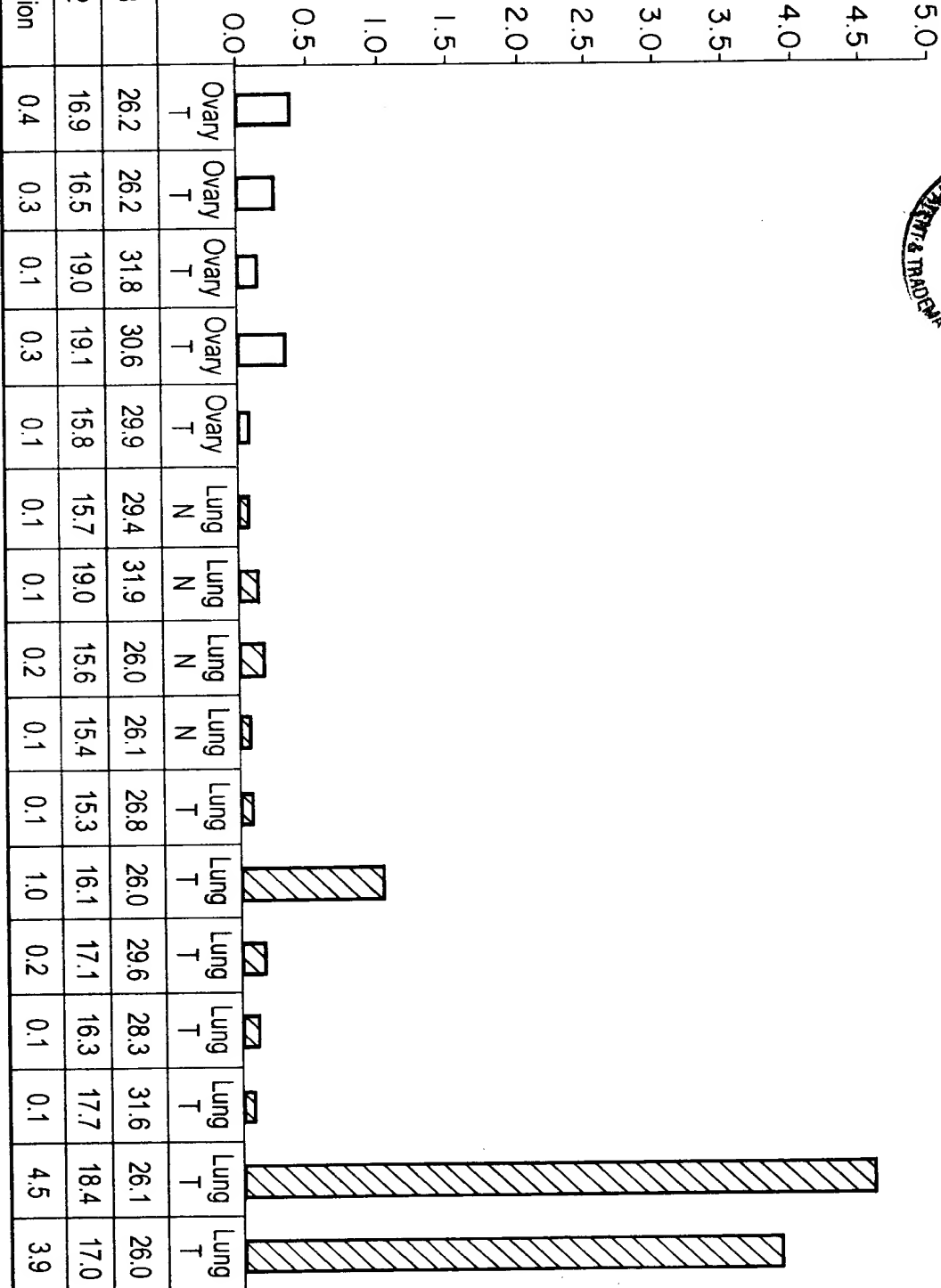


FIG. 8B

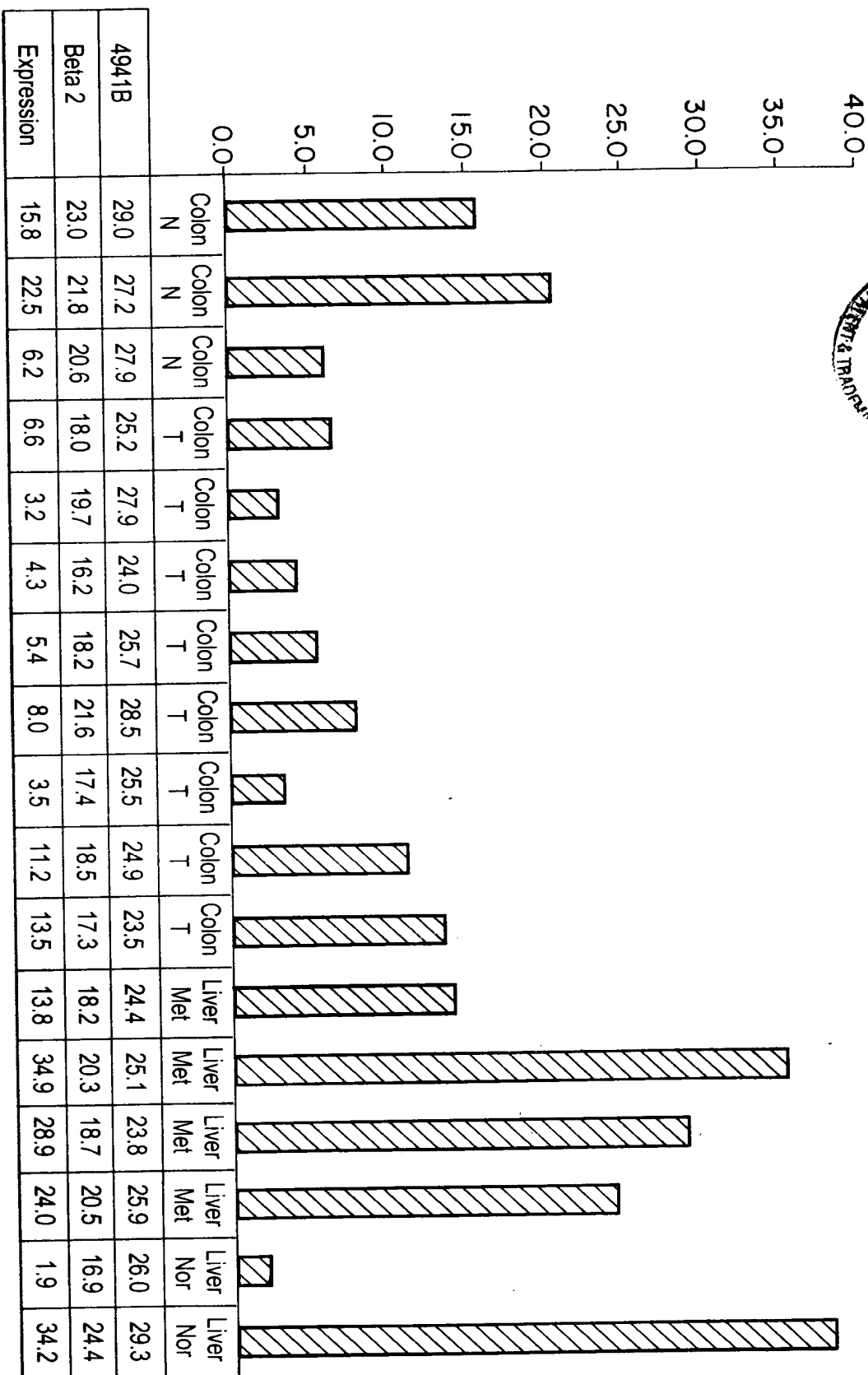


FIG. 8C



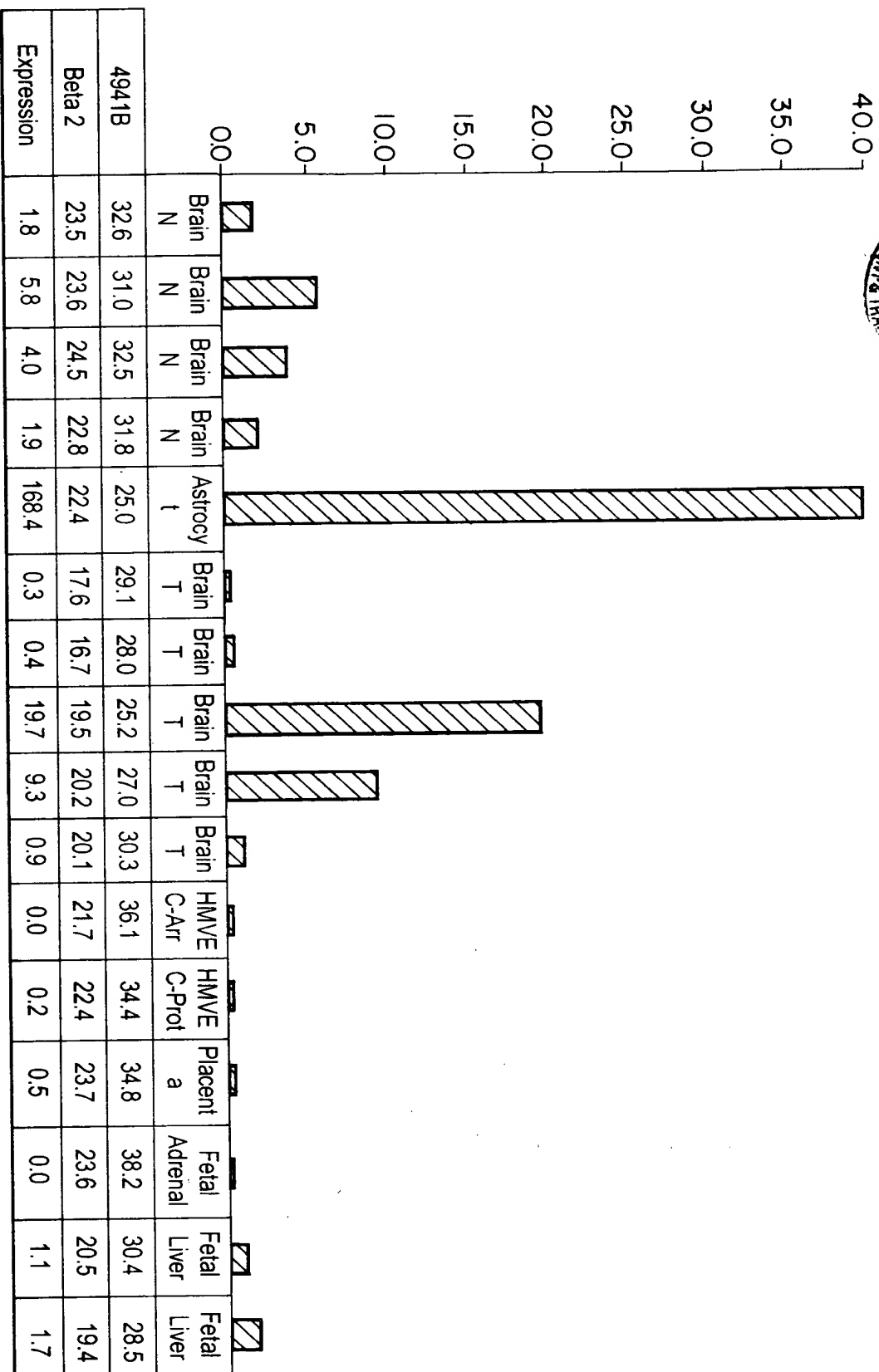


FIG. 8D